






## Relative pressure measuring device

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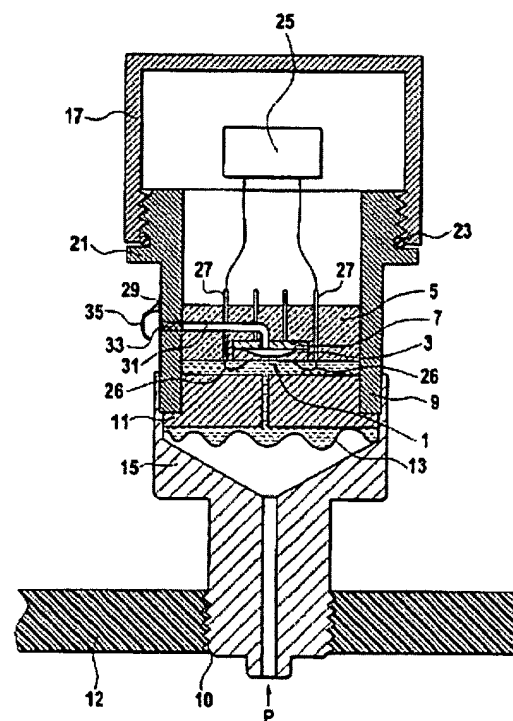
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Abstract not available for DE10134359

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Device comprises a differential pressure measurement cell (1) with a pressure sensitive element (3) on the process side of which the pressure (p) that is to be measured is applied. On the other side of the element a reference pressure is applied, with the differential pressure measured relative to this reference pressure. The process side pressure tap connects through a connection (15) at one end of the device housing (9). A single tap (29) is made for application of the reference pressure.



**Fig. 1**

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(54) **RELATIVE PRESSURE MEASURING INSTRUMENT**

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(52) U.S. Cl. .... **73/717**

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 73/708, 706, 720

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#### (57) **ABSTRACT**

A relative pressure measuring instrument has a reference pressure feed that offers a high measure of safety and is easy to produce. Included is a relative pressure measuring cell having a pressure sensitive element, on whose process-facing side there is present during operation a pressure (p) to be measured, on whose process-averted side there is present during operation a reference pressure ( $p_R$ ) to which the pressure (p) to be measured is to be referred, a support on which the relative pressure measuring cell is arranged and which is enclosed in a housing, a process connection, that is connected to a process-facing end of the housing, a measuring instrument housing that is arranged at a process-averted end of the housing, and a reference pressure feed through which during operation the reference pressure ( $p_R$ ) is led to the process-averted side of the pressure sensitive element, and which leads completely out of the relative pressure measuring instrument laterally through the support and a single bore through the housing.

**7 Claims, 2 Drawing Sheets**

